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# ***WATER SUPPLY OUTLOOK FOR ARIZONA***

Prepared by

**U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE**

Collaborating with

**SALT RIVER VALLEY WATER USERS ASSOCIATION**

and

**ARIZONA AGRICULTURAL EXPERIMENT STATION**

Data included in this report were obtained by the agencies named above in cooperation with the Federal, State and private organizations listed on the last page of this report.

AS OF  
**MAR. 1, 1973**

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

## PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 511 N. W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

## PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia





# **WATER SUPPLY OUTLOOK FOR ARIZONA**

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

*Issued by*

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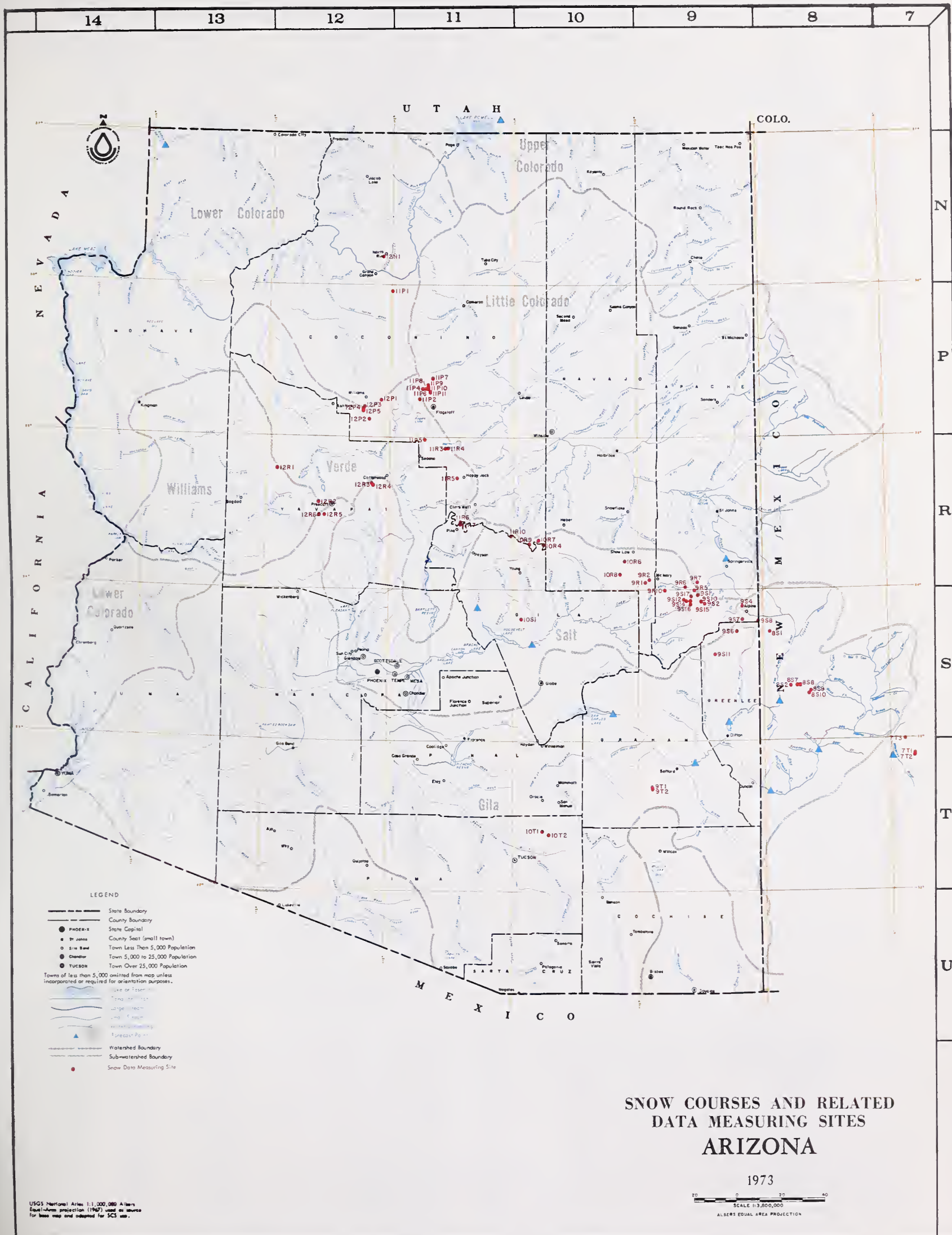
PRESIDENT  
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|||||  
*Report prepared by*

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ROOM 6029 FEDERAL BUILDING  
PHOENIX, ARIZONA 85025







# INDEX to SNOW COURSES and SOIL MOISTURE STATIONS

NUMBER	NAME	SEC.	TWP.	RGE.	ELEV.	DRAINAGE	OBSERVER	RECORD BEGAN
11P10A	Agassiz	32	23N	7E	11200	Little Colorado	SCS	1968
11R7	Baker Butte #2	9	12N	9E	7700	Verde	SCS	1971
11R6PSP	Baker Butte	4	12N	9E	7300	Verde	SCS	1966
9S1APSP	Baldy	28	7N	27E	9125	Little Colorado	SCS	1950
9S15	Baldy #2	12	6N	26E	9750	Little Colorado	SCS	1963
9S16	Baldy #3	13	6N	26E	10950	Little Colorado	SCS	1963
10T1	Bear Wallow	6	12S	16E	8100	Gila	FS	1948
9S6	Beaver Head	13	4N	30E	8000	San Francisco	FS	1938
12P5	Bill Williams Intermediate	17	21N	2E	8550	Cataract	FS	1967
12P4	Bill Williams Summit	17	21N	2E	8950	Verde	FS	1967
9S10m	Black River Divide	10	6N	27E	9400	Salt	SCS	1954
12N1	Bright Angel	34	33N	3E	8400	Bright Angel Creek	NPS	1947
12R1	Camp Wood	3	16N	6W	5700	Verde	FS	1946
10R7M	Canyon Creek #2	18	11N	15E	7500	Little Colorado	SCS	1958
10R9P	Canyon Point	28	11N	14E	7600	Salt	SCS	1967
12P1M	Chalender	27	22N	3E	7100	Verde	FS	1947
9R7	Cheese Springs	28	8N	27E	8600	Little Colorado	SCS	1969
12R6P	Copper Basin Divide	23	13N	3W	6720	Verde	SCS	1963
10R8m	Corduroy Creek	4	8N	21E	6000	Salt	SCS	1954
9S7	Coronado Trail	26	5N	30E	8000	San Francisco	FS	1938
9T2A	Crazy Horse	34	8S	24E	10200	Gila	FS	1963
11P11a	Doyle Saddle	4	22N	7E	10900	Little Colorado	SCS	1968
7T1	Emory Pass #1	16	16S	9W**	7800	Mimbres	SCS	1967
7T2	Emory Pass #2	16	16S	9W**	7800	Mimbres	SCS	1967
10R6	Forest Dale	2	9N	21E	6430	Salt	BIA	1939
9R5	Ft. Apache	18	7N	27E	9160	Little Colorado	SCS	1951
11P2P	Ft. Valley	22	22N	6E	7350	Little Colorado	FS	1947
8S1MP	Frisco Divide	31	6S	20W**	8000	San Francisco	FS	1938
12R4	Gaddes Canyon	11	15N	2E	7600	Verde	SCS	1954
11P1	Grand Canyon	21	30N	4E	7500	Hance Creek	NPS	1947
9S11P	Hannagan Meadows	19	3N	29E	9090	San Francisco	FS	1964
11R5P	Happy Jack	30	16N	9E	7630	Verde	FS	1951
9R10	Hawley Lake	13	7N	24E	8300	Salt	BIA	1966
10R4PSP	Heber	28	11N	15E	7600	Little Colorado	SCS	1950
9T1A	High Peak	34	8S	24E	10500	Gila	FS	1963
8S9A	Hummingbird	19	11S	17W**	10550	Gila	SCS	1964
11P9P	Inner Basin #1	28	23N	7E	10000	Little Colorado	SCS-USBR	1967
11P8P	Inner Basin #2	28	23N	7E	9750	Little Colorado	SCS-USBR	1967
11P7	Inner Basin #3	3	23N	7E	10250	Little Colorado	SCS-USBR	1967
12R2	Iron Springs	22	14N	3W	6200	Bill Williams	SCS	1946
9S2APSP	Maverick Fork	13	6N	27E	9150	Salt	SCS	1950
7S3A	McKnight Cabin	10	15S	10W**	9300	Mimbres	SCS	1967
9R2M	McNary	23	8N	23E	7200	Salt	BIA	1939
9R1	Milk Ranch	33	8N	23E	7000	Salt	BIA	1941
12R3	Mingus Mountain	3	15N	2E	7100	Verde	SCS	1947
8S2	Mogollon	2	11S	19W**	7000	San Francisco	SCS	1953
11R4	Mormon Lake	13	18N	8E	7350	Little Colorado	SCS	1947
11R3MAPSP	Mormon Mountain	14	18N	8E	7500	Verde	SCS	1950
9S12A	Mt. Ord	4	6N	26E	11200	Salt	SRP-SCS	1966
11P5M	Newman Park	25	19N	6E	6750	Verde	SCS	1963
9S4	Nutrioso	23	6N	30E	8500	San Francisco	FS	1938
11R10	Promontory Butte	5	11N	13E	7930	Little Colorado	SCS	1973
8S7	Redstone Trail	5	11S	18W**	8600	San Francisco	SCS	1961
10T2	Rose Canyon	15	12S	16E	7300	Gila	FS	1948
8S8P	Silver Creek Divide	4	11S	18W**	9000	San Francisco	SCS	1964
9S14A	Smith Cienega	10	6N	26E	10050	Salt	SRP-SCS	1966
11P4	Snow Bowl #1	36	23N	6E	10260	Verde	FS	1961
11P6	Snow Bowl #2	31	23N	7E	11000	Verde	FS	1965
9S8	State Line	6	6S	21W**	8000	San Francisco	FS	1938
9S17	Sunrise Summit	36	7N	26E	10600	Salt	FAIR-SCS	1972
12P2P	White Horse Lake Jct.	2	20N	2E	7180	Verde	FS	1967
12R5	White Spar	19	13N	2W	6000	Verde	SCS	1963
8S10A	Whitewater	19	11S	17W**	10750	Gila	SCS	1964
12P3	Williams Ski Run	9	21N	2E	7720	Cataract	FS	1967
9R6P	Wilson Lake	4	7N	26E	9000	Salt	SCS	1966
10S1P	Workman Creek	33	6N	14E	6900	Salt	FS	1952

A Aerial Snow Depth Marker

a Aerial Snow Depth Marker Only

M Soil Moisture Station

m Soil Moisture Station Only

P Precipitation Storage Gage

SP Snow Pressure Pillow

\*\* NM Principal Meridian



# ARIZONA WATER SUPPLY OUTLOOK

MARCH 1, 1973

The water supply outlook for Arizona is excellent. All runoff forecasts have been significantly raised again, as much above normal precipitation continued through the second half of February.

## SNOW COVER

Although most of the snow below 6,500 feet has melted, there was a marked increase above 7,000 feet. Snow cover is now twice as much as normal on the Salt and Gila Watersheds and almost three times average on the Verde. This is slightly less than that of 1968 on the Salt and Gila Watersheds, but considerably more on the Verde. Eight feet of snow with 20 to 25 inches of water content is present above 10,000 feet on the San Francisco Peaks, White Mountains, and Mogollon Mountains.

## PRECIPITATION

February precipitation has been very heavy on all watersheds ranging from 2 to 3 times average for the month. The largest amounts were reported on the Tonto Watershed where 8.45 inches was received at Workman Creek and 6.37 inches at Canyon Point on the Rim. Most other stations received 4 to 5 inches.

## SOIL MOISTURE

Soils are very wet with saturated conditions above 6,000 feet. Water yields will be high from subsequent precipitation during March.

## RESERVOIR STORAGE

Reservoir storage increased greatly the last 2 weeks. San Carlos Reservoir picked up 87,000 acre-feet, raising the storage above 500,000 acre-feet. This is  $4\frac{1}{2}$  times average and 54% of capacity. Salt River Project reservoirs are at 84% of capacity and contain 60% above average for this date.

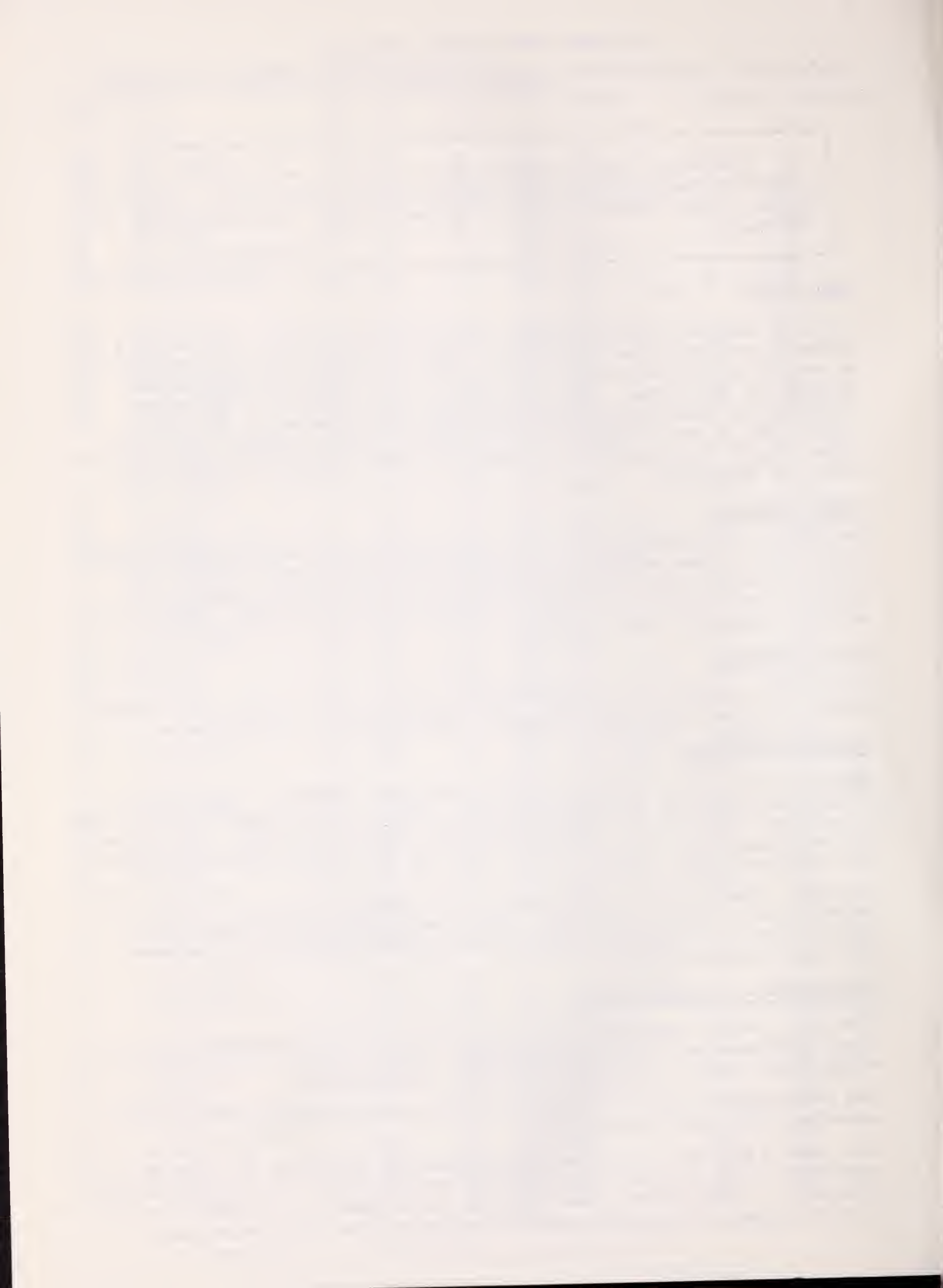
Periodic releases will continue from the Verde reservoirs as inflow exceeds use. During February, 70,000 acre-feet was delivered for agricultural and municipal use, while 20,000 acre-feet was released into the river channel.

## STREAMFLOW AND WATER SUPPLY

The Salt, Verde, and Tonto streams produced 308,000 acre-feet last month with another 560,000 expected by June 1. This will be over 6 times that received last year and 69% above average.

The Gila near Solomon is forecast to flow twice normal with 148,000 acre-feet predicted through May.

High peak flows are not necessarily expected, although the very wet watershed could produce high flows if precipitation is of very unusual intensity. Heavy snows rarely produce high peak flows since it melts slowly and exists on only a small portion of the total watershed.



# STREAMFLOW FORECASTS ABOUT MARCH 1,

STREAMFLOW FORECASTS		ABOUT MARCH 1,		THIS YEAR		PAST RECORD	
1973		FORECAST		FORECAST	THOUSAND ACRE FEET		
BASIN STREAM and/or FORECAST POINT		Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average †	
<u>SALT RIVER DRAINAGE</u>							
Salt near Roosevelt		360	178	Mar-May	55.4	202.4	
Tonto Creek near Roosevelt		33	147	Mar-May	1.5	22.5	
Verde River above Horseshoe		165	155	Mar-May	31.0	106.5	
Verde River above Horseshoe		110	195	March	11.9	56.4	
Total Salt River Project Streams		558	169	Mar-May	87.9	331.4	
Salt near Roosevelt		150	186	March	30.8	80.6	
<u>GILA RIVER DRAINAGE</u>							
Gila River at Calva		88	221	Mar-May	5.2	39.8	
Gila River near Gila		62	192	Mar-May	12.8	32.3	
Gila River near Solomon		148	203	Mar-May	15.2	73.0	
Gila River near Solomon		76	197	March	7.2	38.4	
Gila River near Virden		75	206	Mar-May	11.8	36.3	
Frisco River at Clifton		75	194	Mar-May	9.0	38.7	
Frisco River at Glenwood		34	212	Mar-May	3.6	16.0	
<u>LITTLE COLORADO RIVER DRAINAGE</u>							
Little Colo. River above Lyman Dam		15	192	Mar-June	2.0	7.8	
<u>GRANITE CREEK DRAINAGE</u>							
Granite Creek		2	---	Mar-May	---	---	
Willow Creek		0.8	---	Mar-May	---	---	
<u>MIMBRES RIVER DRAINAGE</u>							
Mimbres River near Mimbres		6	250	Mar-May	1.1	2.4	
<u>VIRGIN RIVER DRAINAGE</u>							
Virgin River near Littlefield		73	218	Apr-June	13.0	33.4	

† Based on the 15-year period,  
1952-67

† Based on the 15-year period,  
1953-67





**RESERVOIR STORAGE (Thousand Acre Feet)** END OF MONTH

ABOUT MARCH 1, 1973

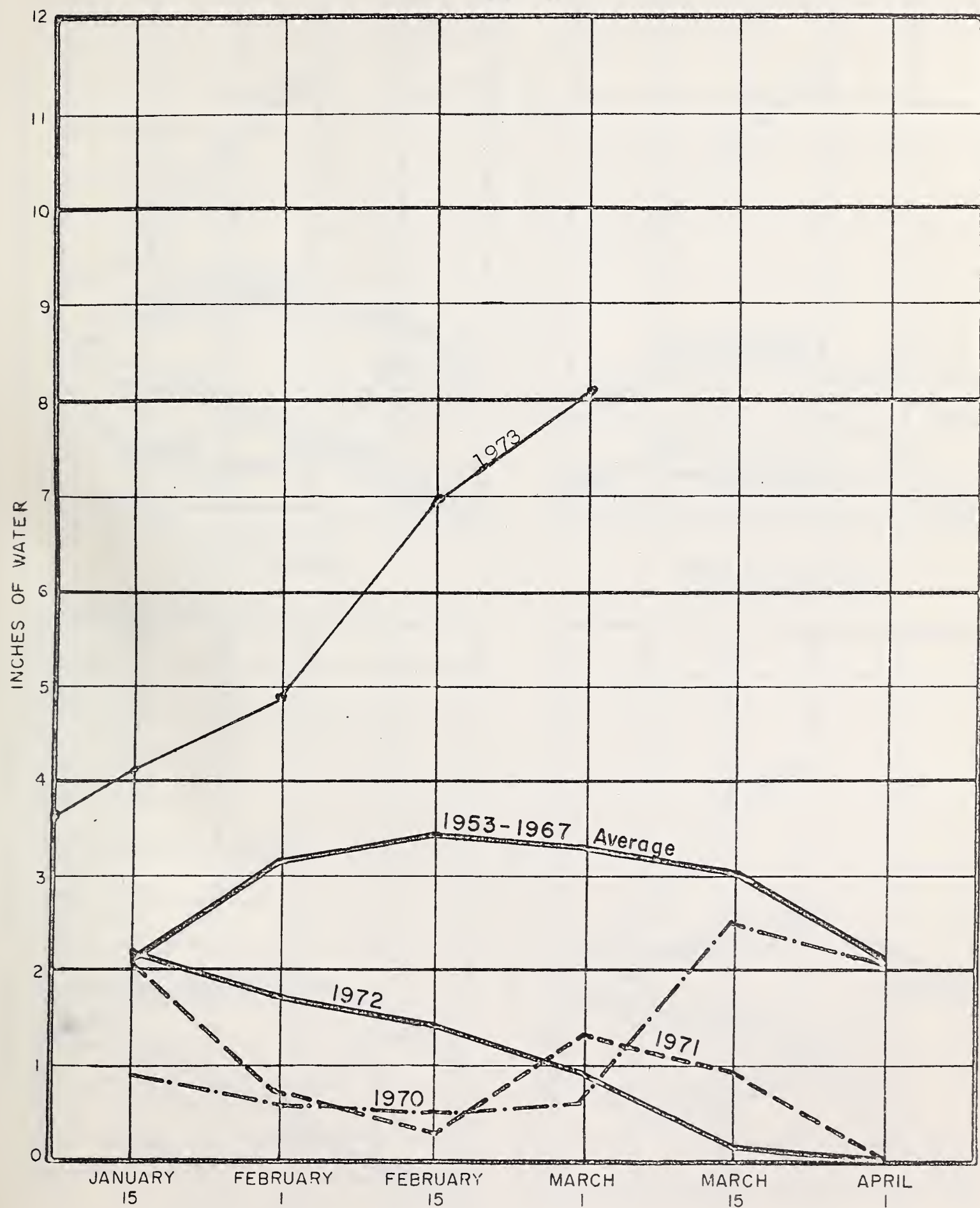
ABOUT MARCH 1, 1973

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average†
<u>GILA RIVER DRAINAGE</u>					
Agua Fria	Lake Pleasant	157.6	94.0	55.1	42.2
Granite	Watson Lake	4.7	4.5	3.2	----
Granite	Willow Creek	6.1	6.1	1.6	----
Gila	San Carlos	948.6	509.5	125.4	110.9
Salt (4)	Roosevelt, Apache, Canyon & Saguaro	1755.0	1,425.9	943.9	960.6
Verde (2)	Bartlett and Horseshoe	317.7	304.3	100.2	117.8
Salt and Verde	6 Salt River Project Reservoirs	2072.7	1,730.2	1044.3	1078.4
<u>COLORADO RIVER DRAINAGE</u>					
Colorado	Lake Havasu	619.4	534.6	547.7	535.4
Colorado	Lake Mohave	1810.0	1,747.8	1666.0	1697.0
Colorado	Lake Mead	26159.0	19,453.0	17741.0	16415.8
Colorado	Lake Powell	25002.0	12,217.0	13112.0	
Little Colorado	Lyman	30.6	8.7	8.8	9.5
Little Colorado	Show Low Lake	5.1	2.4	2.2	1.6*
† Based on 15-year period, 1953-67					
* Average is for less than 15 years of record					
- 3 -					

+ 1953-1967 period.



# RELATIVE SNOW WATER ACCUMULATION ARIZONA 1973

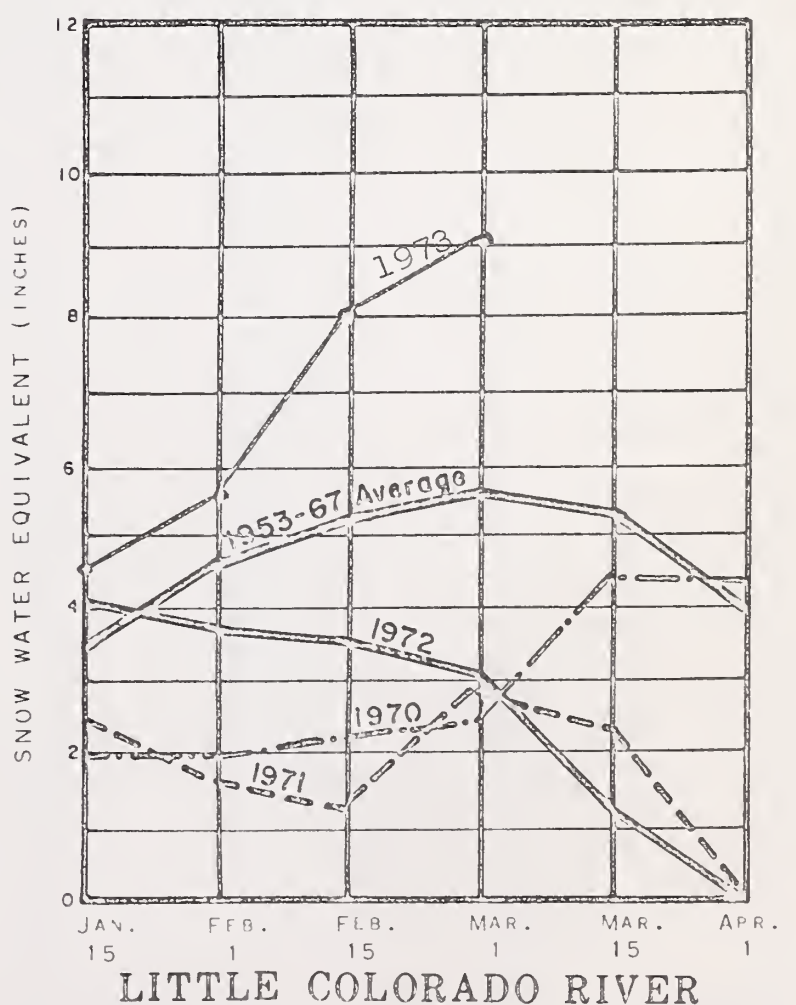
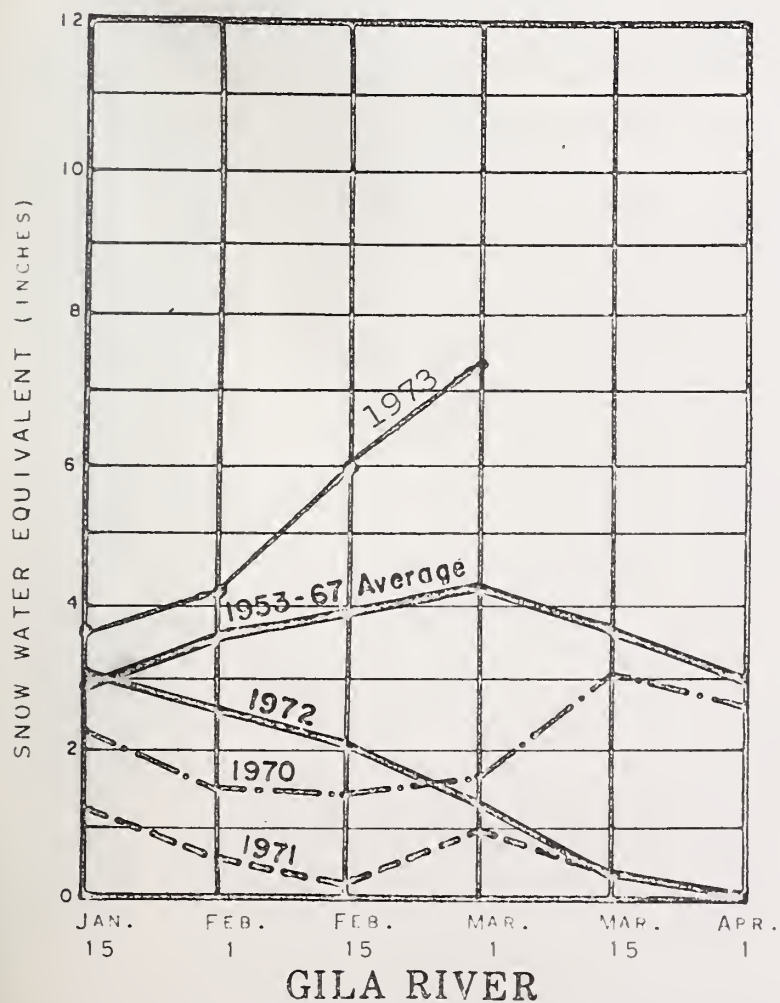
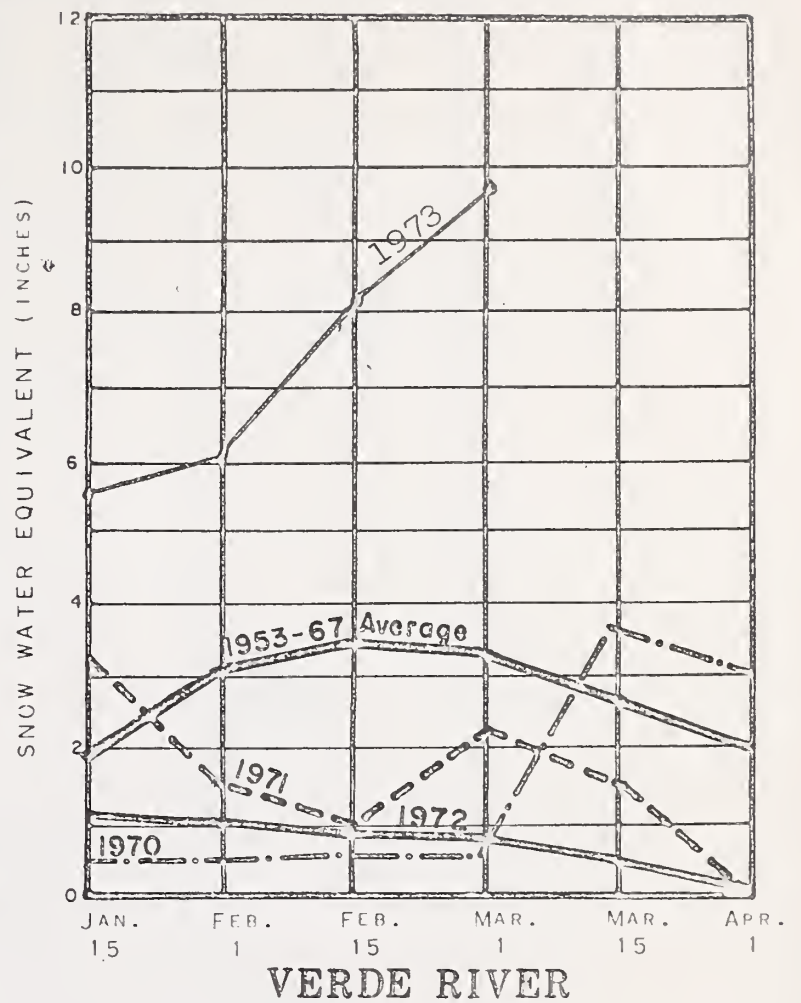
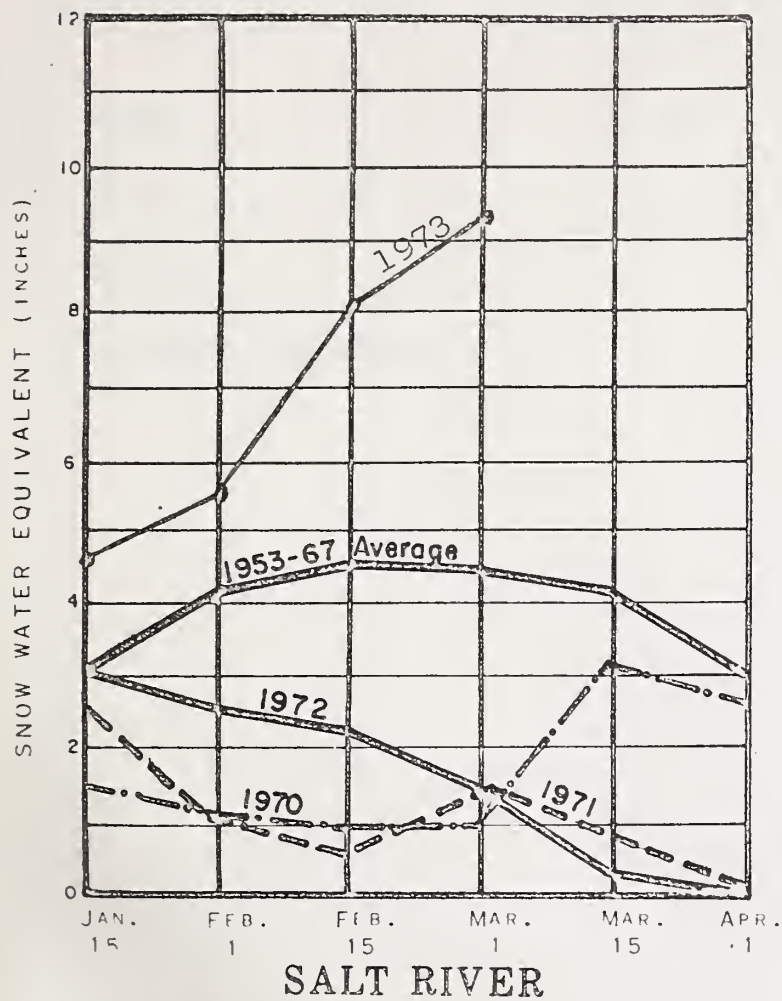


*This graph represents the average snow water content on eleven selected snow courses on Arizona Sub-Watersheds.*





# 1973 ARIZONA SNOW COVER BY WATERSHEDS





# SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

ABOUT MARCH 1, 1973

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF:	
		Last Year	Average
Gila	10	514	189
Salt	10	603	207
Verde	10	1425	295
Little Colorado	5	305	167





WATER SUPPLY INVENTORY  
SALT RIVER VALLEY SYSTEM

MARCH 1, 1973

IN ACRE-FEET

AVERAGE SUPPLY  
ON MARCH 1

ANTICIPATED 1973  
SUPPLY \*

3,000,000

2,500,000

2,000,000

1,500,000

1,000,000

500,000

0



Average Summer  
Runoff

Average Spring  
Runoff

Average  
Storage



Average Summer Runoff

Forecast Runoff  
(March-May)

Present Storage

Based on Present Storage + Forecast Spring Runoff + Average Summer Runoff



# SNOW

ABOUT MARCH 1, 1973

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
<u>GILA RIVER</u>						
Bear Wallow	8100	2/28	13	4.2	0.0	4.4
Beaver Head	8000	2/28	21	5.9	0.1	2.3
Coronado Trail	8000	2/27	21	6.2	0.0	2.1
Crazy Horse (A)	10200	2/27	72	15.1	---	---
Emory Pass #1 *	7800	2/28	11	2.8	0.0	---
Emory Pass #2 *	7800	2/28	15	4.5	0.0	---
Frisco Divide	8000	2/27	18	5.7	0.2	2.0
Hannagan Meadows *	9090	2/28	54	15.9	4.1	8.6**
High Peak (A)	10500	---	---	---	---	---
Hummingbird (A)	10550	2/28	84	21.0	11.5	13.9**
McKnight Cabin * (A)	9300	2/28	36	9.0	2.1	---
Mogollon	7000	2/28	2	0.9	0.0	1.9
Nutrioso	8500	2/27	14	4.3	0.0	1.6
Redstone Trail	8600	2/28	32	9.7	3.5	7.6**
Rose Canyon	7300	2/28	10	4.1	0.0	2.3
Silver Creek Divide	9000	2/28	48	14.1	6.4	10.6**
State Line	8000	2/28	21	6.9	0.1	1.9
Whitewater (A)	10750	2/28	98	22.5	19.0	16.8**
<u>SALT RIVER</u>						
Baldy *	9125	2/27	44	11.6	2.5	6.8
Beaver Head	8000	2/28	21	5.9	0.1	2.3
Canyon Creek	7500	2/27	27	9.4	0.0	2.8**
Canyon Point	7600	2/27	30	9.7	0.0	3.3**
Coronado Trail	8000	2/27	21	6.2	0.0	2.1
Forest Dale	6430	2/28	13	3.9	0.0	0.6
Ft. Apache	9160	2/27	41	11.1	4.9	7.3
Hannagan Meadows	9090	2/28	54	15.9	4.1	8.6**
Hawley Lake	8300	2/28	34	10.3	1.5	6.0**
Heber	7600	2/27	31	10.8	0.0	2.9
Maverick Fork	9050	2/27	49	13.4	3.8	8.2
McNary	7200	2/28	18	5.7	0.0	2.0
Milk Ranch	7000	2/28	8	2.3	0.0	1.0
Mt. Ord (A)	11000	---	---	---	---	18.0**
Nutrioso *	8500	2/27	14	4.3	0.0	1.6
Promontory Butte	7930	---	---	---	---	---
Smith Cienega (A)	9850	2/28	68	19.7	17.2	12.8**
Sunrise Summit	10600	2/28	57	18.2	12.0	---
Wilson Lake	9000	2/27	45	13.0	7.6	9.6**
Workman Creek	6900	2/28	36	14.3	0.0	3.6
<u>BILL WILLIAMS RIVER</u>						
Camp Wood *	5700	2/28	1	0.5	0.0	0.4
Copper Basin Divide	6720	2/28	13	4.8	0.0	1.6**
Iron Springs	6200	2/28	1	0.5	0.0	0.2

† 1953-67 15-year period. (\*) Adjacent drainage. (\*\*) 1953-67 Adjusted average. (A) Aerial observation: Water content estimated.





# SNOW

ABOUT MARCH 1, 1973

SNOW		ABOUT MARCH 1, 1973		THIS YEAR			PAST RECORD	
DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)			
NAME	Elevation				Last Year	Average †		
VERDE RIVER								
Baker Butte	7300	2/27	39	13.1	0.0	4.1**		
Baker Butte #2	7700	2/27	60	20.2	2.9	---		
Camp Wood	5700	2/28	1	0.5	0.0	0.4		
Chalender	7100	2/28	24	6.6	0.0	2.3		
Copper Basin Divide	6720	2/28	13	4.8	0.0	1.6**		
Fort Valley	7350	2/27	20	5.9	0.0	1.8		
Gaddes Canyon	7600	2/27	38	11.4	0.0	4.0**		
Happy Jack	7630	2/28	38	11.5	0.0	2.7		
Iron Springs *	6200	2/28	1	0.5	0.0	0.2		
Mingus Mountain	7100	2/27	9	2.7	0.0	0.6		
Mormon Lake *	7350	2/27	34	11.3	0.0	2.9		
Mormon Mountain	7500	2/27	40	12.8	0.0	4.1		
Newman Park	6750	2/27	21	7.1	0.0	1.3**		
Snow Bowl #1	10260	2/27	57	16.8	6.8	8.7**		
Snow Bowl #2	11000	2/27	89	25.2	12.9	13.4**		
White Horse Lake Jct.	7150	3/2	28	9.8	0.0	---		
White Spar	6000	2/28	1	0.3	0.0	0.2**		
LOWER COLORADO RIVER								
Bill Williams Int.	8550	3/1	54	15.8	1.0	---		
Bill Williams Summit	8950	3/1	62	18.6	4.6	---		
Bright Angel	8400	2/28	47	15.4	---	---		
Chalender *	7100	2/28	24	6.6	0.0	2.3		
Fort Valley	7350	2/27	20	5.9	0.0	1.8		
Grand Canyon	7500	2/27	27	8.0	0.0	1.5		
Williams Ski Run	7720	3/1	48	13.6	0.9	---		
LITTLE COLORADO RIVER								
Agassiz	11200	REPORT	DELAYED		14.1	---		
Baldy	9125	2/27	44	11.6	2.5	6.8		
Canyon Creek	7500	2/27	27	9.4	0.0	2.8**		
Canyon Point	7600	2/27	30	9.7	0.0	3.3**		
Cheese Springs	8600	2/27	34	8.4	4.6	---		
Doyle Saddle	10900	REPORT	DELAYED		---	---		
Foresl. Dale	6430	2/28	13	3.9	0.0	0.6		
Ft. Apache	9160	2/27	41	11.1	4.9	7.3		
Fort Valley	7350	2/27	20	5.9	0.0	1.8		
Happy Jack *	7630	2/27	38	11.5	0.0	2.7		
Heber	7600	2/27	31	10.8	0.0	2.9		
Inner Basin #1	10100	REPORT	DELAYED		12.6	---		
Inner Basin #2	9750	REPORT	DELAYED		6.8	---		
Inner Basin #3	10250	---	---	---	5.6	---		
McNary	7200	2/28	18	5.7	0.0	2.0		
Mormon Lake	7350	2/27	34	11.3	0.0	2.9		
Mormon Mountain	7500	2/27	40	12.8	0.0	4.1		
Nutriosio	8500	2/27	14	4.3	0.0	1.6		
Promontory Butte	7930	---	---	---	---	---		
Snow Bowl #1	10260	2/27	57	16.8	6.8	8.7**		
Snow Bowl #2	11000	2/27	89	25.2	12.9	13.4**		
Wilson Lake *	9000	2/27	45	13.0	7.6	9.6**		
† 1953-67 15-year period. (*) Adjacent drainage. (**) 1953-67								

† 1953-67 15-year period. (\*) Adjacent drainage. (\*\*) 1953-67

Adjusted average. (A) Aerial observation: Water content estimated 1953-1967 period.



# S N O W P I L L O W D A T A

BAKER BUTTE

Elevation: 7300

1973

1972

NOVEMBER

DECEMBER

JANUARY

FEBRUARY

MARCH

APRIL

10

8

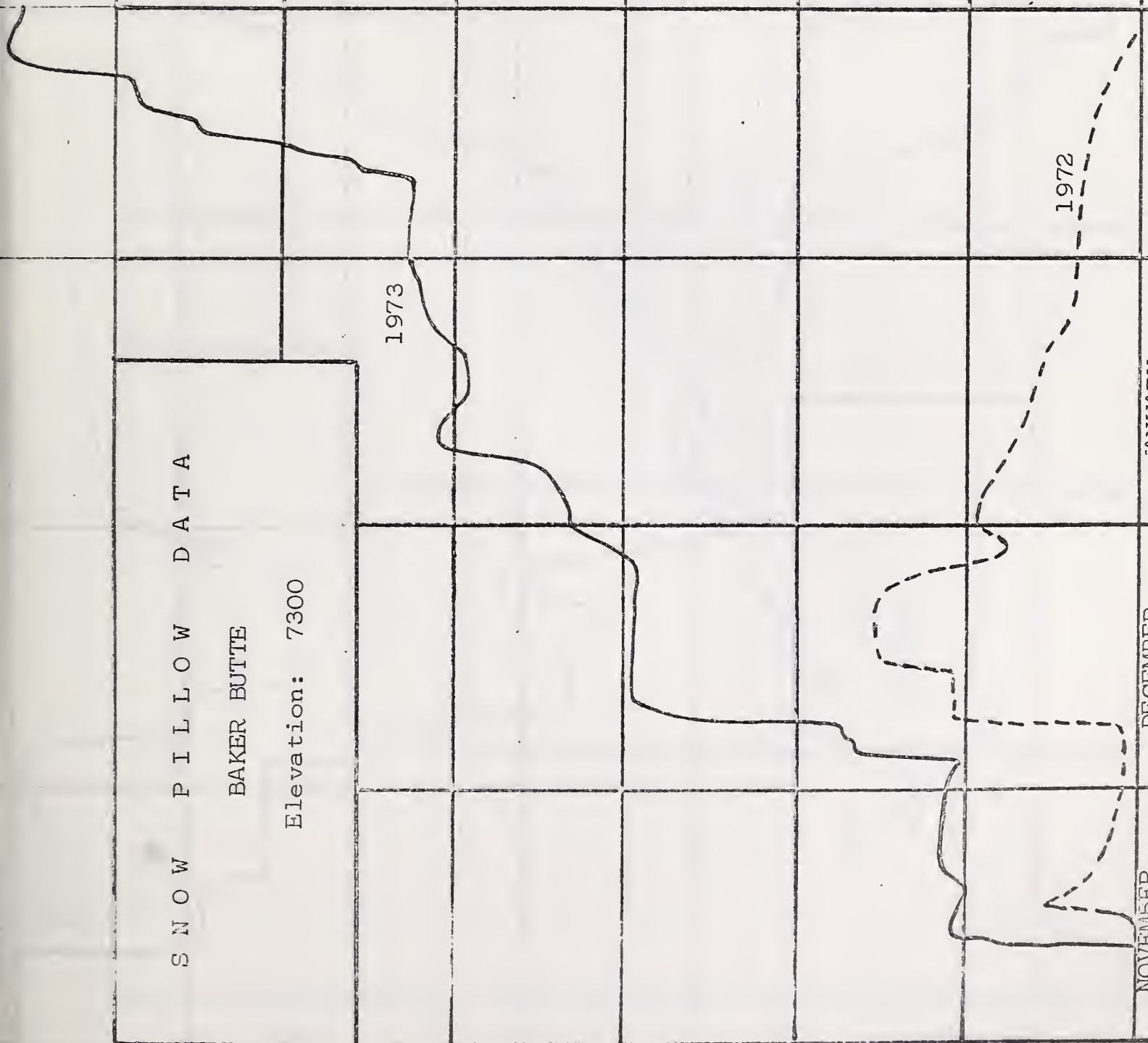
6

4

2

0

WATER CONTENT IN INCHES





S N O W P I L L O W D A T A

MORMON MOUNTAIN

Elevation: 7500

WATER CONTENT IN INCHES

10

8

6

4

2

0

1973

1972

NOVEMBER

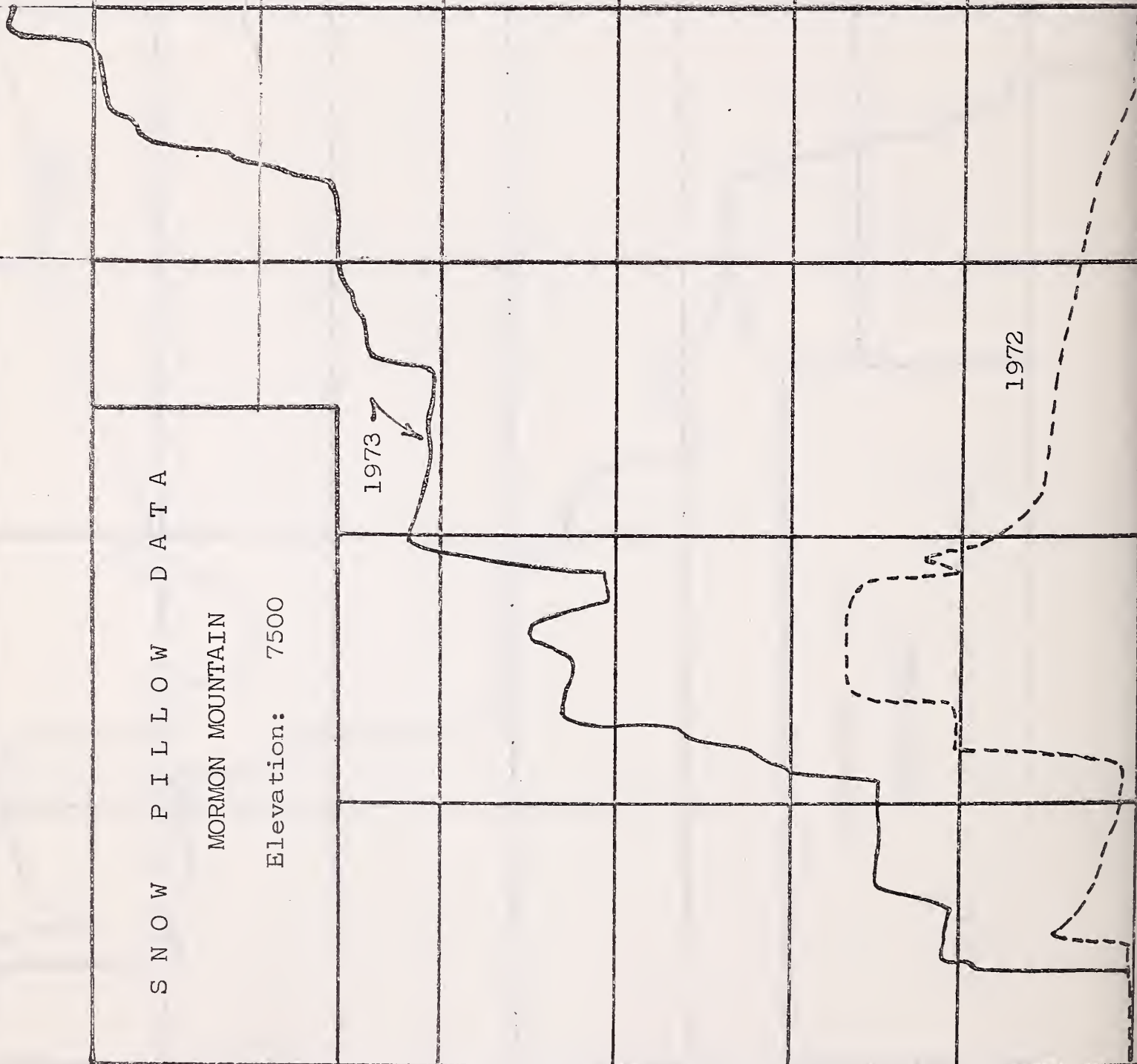
DECEMBER

JANUARY

FEBRUARY

MARCH

APRIL





# S N O W P I L L O W D A T A

BALDY

Elevation: 9125

10

8

6

4

2

0

WATER CONTENT IN INCHES

1973

1972

NOVEMBER

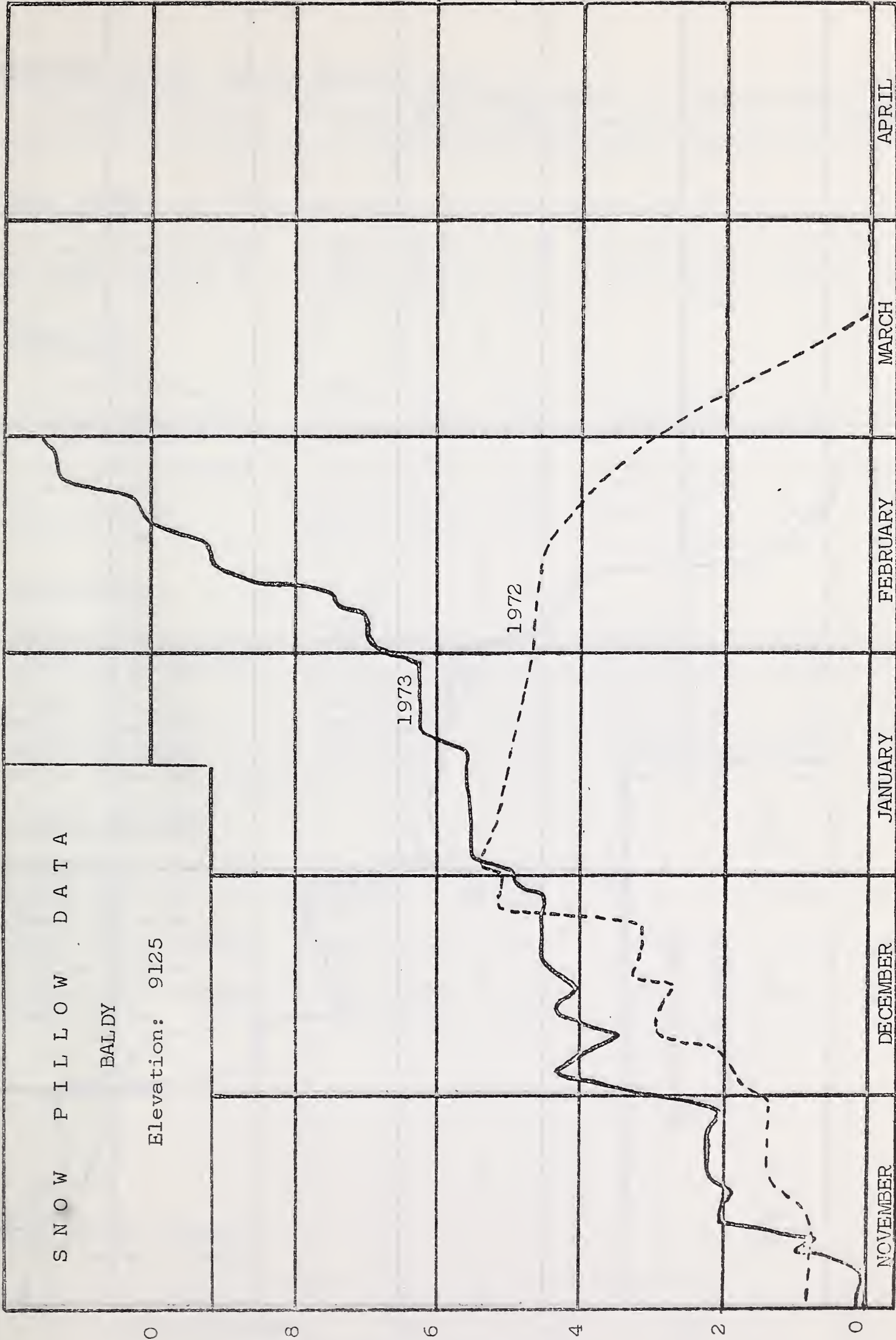
DECEMBER

JANUARY

FEBRUARY

MARCH

APRIL



S N O W   P I L L O W   D A T A

MAVERICK FORK

Elevation: 9050

10

8

6

4

2

0

WATER CONTENT IN INCHES

1973

1972

NOVEMBER

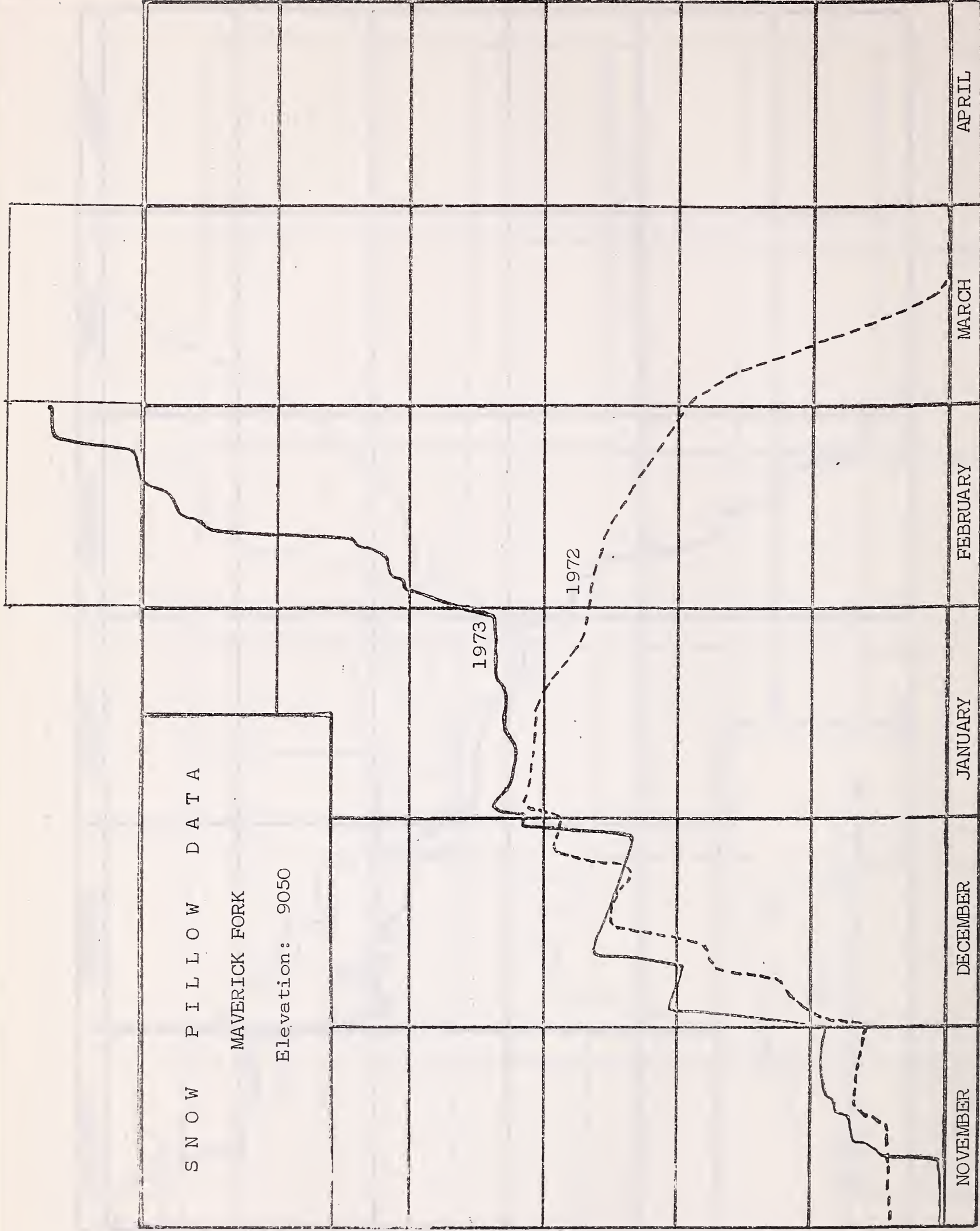
DECEMBER

JANUARY

FEBRUARY

MARCH

APRIL





# PRECIPITATION (Inches)

ABOUT MARCH 1, 1973

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. NOV. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
ABOUT MARCH 1, 1973							
<u>GILA RIVER</u>							
Silver Creek Divide	9000	2/28	4.70	1.70*	14.24	10.82*	121
Hannagan Meadows **	9030	2/28	5.90	2.20*	15.58	10.10*	154
Frisco Divide **	8000	2/27	3.40	---	7.31	---	---
<u>SALT RIVER</u>							
Canyon Point	7600	2/27	6.37	2.80*	19.07	13.19*	145
Hannagan Meadows *	9030	2/28	5.90	2.20*	15.58	10.10*	154
Little Wildcat (Heber Snow Course)	7600	2/27	5.74	2.30*	16.64	11.37*	146
Maverick Fork	9050	2/27	4.69	2.24*	12.63	9.93*	127
Workman Creek **	6970	2/28	8.45	2.84	20.21	13.88	146
Wilson Lake	9100	2/27	3.00	---	10.80	---	---
<u>VERDE RIVER</u>							
Baker Butte	7300	2/27	5.98	2.58*	18.14	14.04*	129
Copper Basin Divide	6720	2/28	4.82	2.15*	14.21	8.94*	159
Fort Valley **	7350	2/28	2.95	1.66	9.48	7.26	131
Happy Jack **	7480	2/28	4.78	2.15*	13.52	8.87*	152
Mingus Mountain	7660	2/27	4.73	2.03	13.30	7.75	172
Mormon Mountain	7500	2/27	4.80	2.71*	18.83	12.72*	148
White Horse Lake Jct.**	7150	3/1	5.30	---	15.42	---	---
<u>LITTLE COLORADO</u>							
Inner Basin #1	9830	DELAYED		2.92		12.41	
Inner Basin #2	10050	DELAYED		---		---	---
Sheep Crossing (Baldy Snow Course)	9125	2/27	4.23	1.99*	12.54	9.42*	133
Little Wildcat (Heber Snow Course)	7600	2/27	5.74	2.30*	16.64	11.37*	146
Greer Lakes	8500	2/27	1.67	.96	5.24	4.90	107

†

1953-67 Average

\*

Adjusted Average

\*\*

Data Supplied by  
U.S. Forest Service

† 1953-67 Average  
\* Adjusted Average

\*\* Data Supplied by  
U.S. Forest Service





## SOIL MOISTURE

ABOUT MARCH 1, 1973

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average †
<u>GILA RIVER</u>							
Frisco Divide	8000	48	13.3	2/27	17.9	12.4	10.9
<u>SALT RIVER</u>							
Black River Divide	9100	48	16.8	2/27	17.2	18.4	15.8
Canyon Creek	7500	48	18.3	2/27	14.0	17.7	15.1
Corduroy Creek	6000	36	13.5	2/28	17.9	12.0	8.7
McNary	7200	48	16.3	2/27	17.8	17.9	14.6
<u>VERDE RIVER</u>							
Mormon Mountain	7500	48	16.1	2/27	14.2	17.8	15.4
Newman Park	6750	48	17.7	2/27	19.5	16.6	14.9
† 1953-67 15-year average							



# The Following Organizations Cooperate in the Arizona Snow Survey Work

## FEDERAL

- Department of Agriculture
  - Soil Conservation Service
  - Forest Service
    - Apache Forest
    - Coconino Forest
    - Coronado Forest
    - Gila Forest
    - Kaibab Forest
    - Prescott Forest
    - Rocky Mountain Forest and Range Experiment Station
    - Tonto Forest
- Department of Commerce
  - NOAA, National Weather Service
- Department of Interior
  - Bureau of Reclamation
    - Region III
  - Geological Survey
    - Arizona District
    - New Mexico District
  - Bureau of Indian Affairs
    - Fort Apache Reservation
    - San Carlos Irrigation Project
  - National Park Service
    - Grand Canyon National Park
- Gila Water Commissioner
  - Safford, Arizona

## STATE

- Arizona Game and Fish Department
- Arizona State Parks Board
- University of Arizona
  - Arizona Agricultural Experiment Station
  - Water Resource Research Center
  - Department of Watershed Management

## MUNICIPAL

- City of Flagstaff

## IRRIGATION PROJECTS

- Salt River Valley Water User's Association
  - Phoenix, Arizona
- San Carlos Irrigation and Drainage District
  - Coolidge, Arizona
- Maricopa County Municipal Water Conservation District

## PRIVATE

- Southwest Forest Industries, Inc.
  - McNary, Arizona
- Fort Apache Indian Reservation
  - White Mountain Recreation Enterprises

Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

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*"The Conservation of Water begins  
with the Snow Survey"*